

Holt Physics Equations

Chapter 2 – Motion in One Dimension

$$\begin{aligned} a_{\text{avg}} &= \frac{\Delta v}{\Delta t} & v_{\text{avg}} &= \frac{\Delta d}{\Delta t} & a_{\text{avg}} &= \frac{\Delta v}{\Delta t} \\ v_f &= v_i + a\Delta t & \Delta d &= \frac{1}{2}(v_f + v_i)\Delta t & \Delta d &= v_i\Delta t + \frac{1}{2}a\Delta t^2 & v_f^2 &= v_i^2 + 2a\Delta d \end{aligned}$$

Chapter 3 – Two-Dimensional Motion & Vectors:

$$\Delta d_x = v_{ix}\Delta t \quad \Delta d_y = v_{iy}\Delta t + \frac{1}{2}a\Delta t^2 \quad v_{fx} = v_{ix} + a\Delta t \quad v_{fy}^2 = v_{iy}^2 + 2a\Delta d_y$$

Chapter 4 – Forces & the Laws of Motion:

$$F_{\text{net}} = ma \quad W = mg \quad f = \mu N$$

Chapter 5 – Work & Energy:

$$\begin{aligned} W_k &= F\Delta d (\cos \theta) & KE &= \frac{1}{2}mv^2 & W_k &= \Delta KE & PE_{\text{gravitational}} &= mgh \\ PE_{\text{elastic}} &= \frac{1}{2}kx^2 & P &= \frac{W_k}{\Delta t} = Fv \end{aligned}$$

Chapter 6 – Momentum & Collisions:

$$p = mv \quad F\Delta t = \Delta p = m\Delta v$$

Chapter 7 – Rotational Motion & the Law of Gravity:

$$\begin{aligned} \Delta \theta &= \frac{\Delta s}{r} & \omega_{\text{avg}} &= \frac{\Delta \theta}{\Delta t} & \alpha_{\text{avg}} &= \frac{\Delta \omega}{\Delta t} & v_t &= \frac{2\pi r}{T} = r\omega & a_t &= r\alpha & a_c &= \frac{v_t^2}{r} = r\omega^2 \\ \omega_f &= \omega_i + \alpha\Delta t & \Delta \theta &= \frac{1}{2}(\omega_f + \omega_i)\Delta t & \Delta \theta &= \omega_i\Delta t + \frac{1}{2}\alpha\Delta t^2 & \omega_f^2 &= \omega_i^2 + 2\alpha\Delta \theta \\ F_c &= ma_c & F_g &= \frac{Gm_1m_2}{r^2} & v_t &= \sqrt{\frac{GM}{r}} & T &= 2\pi\sqrt{\frac{r^3}{GM}} & g &= \frac{GM}{r^2} \end{aligned}$$

(Universal constant $G = 6.67 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$)

Chapter 8 – Rotational Equilibrium & Dynamics:

$$\begin{aligned} \tau &= rF (\sin \theta) & \tau_{\text{net}} &= I\alpha & L &= I\omega & KE_{\text{rotational}} &= \frac{1}{2}I\omega^2 \\ MA &= \frac{F_r}{F_e} & IMA &= \frac{d_e}{d_r} & \text{efficiency} &= \frac{W_{k\text{out}}}{W_{k\text{in}}} \left(\text{or } \frac{MA}{IMA} \right) \times 100\% \end{aligned}$$

Chapter 9 – Fluid Mechanics:

$$\begin{aligned} \rho &= \frac{m}{V} & F_B &= W_{\text{displaced fluid}} = m_{\text{fluid}}g & P &= \frac{F}{A} & P &= P_0 + \rho gh \\ A_1v_1 &= A_2v_2 & P + \frac{1}{2}\rho v^2 + \rho gh &= \text{constant} & PV &= Nk_B T = nRT \end{aligned}$$

Chapter 10 – Heat:

$$^{\circ}\text{F} = \frac{9}{5}^{\circ}\text{C} + 32 \quad K = ^{\circ}\text{C} + 273 \quad Q = mc\Delta T \quad Q_c = mL_c \quad Q_v = mL_v$$

Chapter 12 – Vibrations & Waves:

$$F_{\text{elastic}} = -kx \quad T = 2\pi\sqrt{\frac{L}{g}} \quad T = 2\pi\sqrt{\frac{m}{k}} \quad f = \frac{1}{T} \quad v = \lambda f$$

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